



MATURE E1

SerPheSerIlePheLeuLeuAlaLeuLeuSerCysLeuThrValProAlaSerAlaTyr 192  
TCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGCTTGACTGTGCCCCGCTTCGGCCTAC  
AGAAAGAGATAGAAGGAAGACCGGGACGAGAGAACGAACTGACACGGGCGAAGCCGGATG

GlnValArgAsnSerThrGlyLeuTyrHisValThrAsnAspCysProAsnSerSerIle 212  
CAAGTGCAGCAACTCCACGGGGCTCTACCACGTCACCAATGATTGCCCTAACTCGAGTATT  
GTTACGCGTTGAGGTGCCCCGAGATGGTGAGTGGTTACTAACGGGATTGAGCTCATAA

ValTyrGluAlaAlaAspAlaIleLeuHisThrProGlyCysValProCysValArgGlu 232  
GTGTACGAGGCGGCCGATGCCATCTGCACACTCCGGGGTGCGTCCCTTGCGTTTCGCGAG  
CACATGCTCCGCCGGCTACGGTAGGACGTGTGAGGCCCCACGCAGGGAAACGCAAGCGCTC

GlyAsnAlaSerArgCysTrpValAlaMetThrProThrValAlaThrArgAspGlyLys 252  
GGCAACGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGGCCACCAGGGATGGCAAA  
CCGTTGCGGAGCTCCACAACCCACCGCTACTGGGGATGCCACCGGTGGTCCCTACCGTTT

LeuProAlaThrGlnLeuArgArgHisIleAspLeuLeuValGlySerAlaThrLeuCys 272  
CTCCCCGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTGCGGAGCGCCACCCTCTGT  
GAGGGGCGCTGCGTCAAGCTGCAGTGTAGCTAGACGAACAGCCCTCGCGGTGGGAGACA

SerAlaLeuTyrValGlyAspLeuCysGlySerValPheLeuValGlyGlnLeuPheThr 292  
TCGGCCCTCTACGTGGGGACCTGTGCGGGTCTGTCTTCTTGTTCGGCCAACTGTTTACC  
AGCCGGGAGATGCACCCCTGGACACGCCCAGACAGAAAGAACAGCCGGTTGACAAATGG

PheSerProArgArgHisTrpThrThrGlnGlyCysAsnCysSerIleTyrProGlyHis 312  
TTCTCTCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCTCTATCTATCCCGGCCAT  
AAGAGAGGGTCCGCGGTGACCTGTCTGCGTTCCAACGTTAACGAGATAGATAGGGCCGGTA

IleThrGlyHisArgMetAlaTrpAspMetMetMetAsnTrpSerProThrThrAlaLeu 332  
ATAACGGGTCCACCGCATGGCATGGGATATGATGATGAACCTGGTCCCTACGACGGCGTTG  
TATTGCCCAGTGGCGTACCGTACCCTATACTACTACTTGACCAGGGGATGCTGCGCAAC

ValMetAlaGlnLeuLeuArgIleProGlnAlaIleLeuAspMetIleAlaGlyAlaHis 352  
GTAATGGCTCAGCTGCTCCGGATCCCAAGCCATCTTGGACATGATCGCTGGTGCTCAC  
CATTACCGAGTCGACGAGGCCTAGGGTGTTCGGTAGAACCTGTACTAGCGACCACGAGTG

TrpGlyValLeuAlaGlyIleAlaTyrPheSerMetValGlyAsnTrpAlaLysValLeu 372  
TGGGGAGTCCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTG  
ACCCCTCAGGACCGCCCGTATCGCATAAAGAGGTACCACCCCTTGACCCGCTTCCAGGAC

E2

ValValLeuLeuLeuPheAlaGlyValAspAlaGluThrHisValThrGlyGlySerAla 392  
GTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAAGTGCC  
CATCACGACGACGATAAACGCCCGCAGCTGCGCCTTTGGGTGCAGTGGCCCCCTTCACGG

GlyHisThrValSerGlyPheValSerLeuLeuAlaProGlyAlaLysGlnAsnValGln 412  
GGCCACACTGTGTCTGGATTTGTTAGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAG  
CCGFTGTGACACAGACCTAAACAATCGGAGGAGCGTGGTCCGCGGTTCTCTTGCAGGTC

FIGURE 2A

LeuIleAsnThrAsnGlySerTrpHisLeuAsnSerThrAlaLeuAsnCysAsnAspSer 432  
 CTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAAC TGCAATGATAGC  
 GACTAGTTGTGGTTGCCGTCAACCGTGGAGTTATCGTGCCGGGACTTGACGTTACTATCG

LeuAsnThrGlyTrpLeuAlaGlyLeuPheTyrHisHisLysPheAsnSerSerGlyCys 452  
 CTCAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGT  
 GAGTTGTGGCCGACCAACCGTCCCCGAAAAGATAGTGGTGTTCAGTTGAGAAGTCCGACA

ProGluArgLeuAlaSerCysArgProLeuThrAspPheAspGlnGlyTrpGlyProIle 472  
 CCTGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATC  
 GGACTCTCCGATCGGTGACGGCTGGGGAATGGCTAAAACTGGTCCCGACCCCGGGATAG

SerTyrAlaAsnGlySerGlyProAspGlnArgProTyrCysTrpHisTyrProProLys 492  
 AGTTATGCCAACGGAAGCGGCCCCGACCAGCGCCCTACTGCTGGCACTACCCCCCAAAA  
 TCAATACGTTGCCTTCGCCGGGGCTGGTCCGGGGATGACGACCGTGATGGGGGGTTTT

ProCysGlyIleValProAlaLysSerValCysGlyProValTyrCysPheThrProSer 512  
 CCTTGCGGTATTGTGCCCGCAAGAGTGTGTGGTCCGGTATATTGCTTCACTCCCAGC  
 GGAACGCCATAACACGGGCGCTTCTCACACACACCAGGCCATATAACGAAGTGAGGGTCG

ProValValValGlyThrThrAspArgSerGlyAlaProThrTyrSerTrpGlyGluAsn 532  
 CCCGTGGTGGTGGGAACGACCGACAGGTCCGGCGCGCCACCTACAGCTGGGGTGAAAAT  
 GGGCACCACCACCTTGCTGGCTGTCCAGCCCGCGGGTGGATGTCGACCCCACTTTTA

AspThrAspValPheValLeuAsnAsnThrArgProProLeuGlyAsnTrpPheGlyCys 552  
 GATACGGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCCGTTGT  
 CTATGCCTGCAGAAGCAGGAATTGTTATGGTCCGGTGGCGACCCGTTAACCAAGCCAACA

ThrTrpMetAsnSerThrGlyPheThrLysValCysGlyAlaProProCysValIleGly 572  
 ACCTGGATGAAC TCAACTGGATTACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGA  
 TGGACCTACTTGAGTTGACCTAAGTGGTTTTACACGCCTCGCGGAGGAACACAGTAGCCT

GlyAlaGlyAsnAsnThrLeuHisCysProThrAspCysPheArgLysHisProAspAla 592  
 GGGGCGGGCAACAACACCCTGCACTGCCCACTGATTGCTTCCGCAAGCATCCGGACGCC  
 CCCC GCCGTTGTTGTGGGACGTGACGGGGTGACTAACGAAGGCGTTTCGTAGGCCTGCGG

ThrTyrSerArgCysGlySerGlyProTrpIleThrProArgCysLeuValAspTyrPro 612  
 ACATACTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCCTGGTTCGACTACCCG  
 TGTATGAGAGCCACGCCGAGGCCAGGGACCTAGTGTGGGTCCACGGACCAGCTGATGGGC

TyrArgLeuTrpHisTyrProCysThrIleAsnTyrThrIlePheLysIleArgMetTyr 632  
 TATAGGCTTTGGCATTATCCTTGTACCATCAACTACACTATATTTAAATCAGGATGTAC  
 ATATCCGAAACCGTAATAGGAACATGGTAGTTGATGTGATATAAATTTTAGTCCTACATG

ValGlyGlyValGluHisArgLeuGluAlaAlaCysAsnTrpThrArgGlyGluArgCys 652  
 GTGGGAGGGGTGAGCACAGGCTGGAAGCTGCCTGCAACTGGACGCGGGGCGAACGTTGC  
 CACCCTCCCAGCTCGTGTCCGACCTTCGACGGACGTTGACCTGCGCCCCGCTTGCAACG

AspLeuGluAspArgAspArgSerGluLeuSerProLeuLeuLeuThrThrThrGlnTrp 672  
 GATCTGGAAGATAGGGACAGGTCCGAGCTCAGCCCGTTACTGCTGACCACTACACAGTGG  
 CTAGACCTTCTATCCCTGTCCAGGCTCGAGTCGGGCAATGACGACTGGTGTGTGTCACC

FIGURE 2B

GlnValLeuProCysSerPheThrThrLeuProAlaLeuSerThrGlyLeuIleHisLeu 692  
CAGGTCCTCCCGTGTTCCTTCACAACCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTC  
GTCCAGGAGGGCACAAGGAAGTGTGGGACGGTCGGAACAGGTGGCCGGAGTAGGTGGAG

HisGlnAsnIleValAspValGlnTyrLeuTyrGlyValGlySerSerIleAlaSerTrp 712  
CACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCCTGG  
GTGGTCTTGTAACACCTGCACGTCATGAACATGCCCCACCCAGTTCGTAGCGCAGGACC

AlaIleLysTrpGluTyrValValLeuLeuPheLeuLeuAlaAspAlaArgValCys 732  
GCCATTAAGTGGGAGTACGTGCTCCTCCTGTTCTTCTGCTTGACAGCGCGCGTCTGC  
CGGTAATTACCCCTCATGCAGCAGGAGGACAAGGAAGACGAACGTCTGCGCGCGCAGACG

P7

SerCysLeuTrpMetMetLeuLeuIleSerGlnAlaGluAlaAlaLeuGluAsnLeuVal 752  
TCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAAGCGGCTTTGGAGAACCTCGTA  
AGGACGAACACCTACTACGATGAGTATAGGGTTGCGCTTCGCCGAAACCTCTTGGAGCAT

IleLeuAsnAlaAlaSerLeuAlaGlyThrHisGlyLeuValSerPheLeuValPhePhe 772  
ATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCTCGTGTTCCTC  
TATGAATTACGTCGTAGGGACCGGCCCTGCGTGCCAGAACATAGGAAGGAGCACAAGAAG

CysPheAlaTrpTyrLeuLysGlyLysTrpValProGlyAlaValTyrThrPheTyrGly 792  
TGCTTTGCATGGTATCTGAAGGGTAAGTGGGTGCCCGGAGCGGTCTACACCTTCTACGGG  
ACGAAACGTACCATAGACTTCCCATTCACCCACGGGCCTCGCCAGATGTGGAAGATGCC

MetTrpProLeuLeuLeuLeuLeuAlaLeuProGlnArgAlaTyrAlaOC 809  
ATGTGGCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGGCGTACGCGTAA  
TACACCGGAGAGGAGGACGAGGACAACCGCAACGGGGTCGCCCGCATGCGCATT

FIGURE 2C

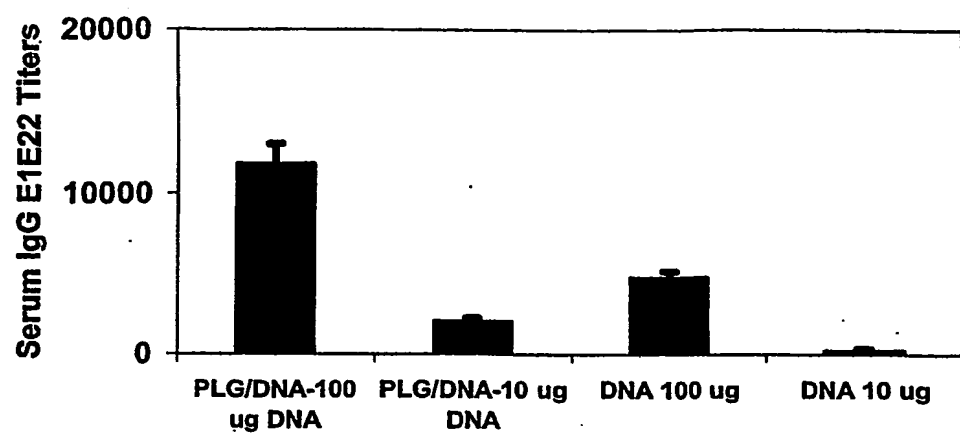


Fig. 3

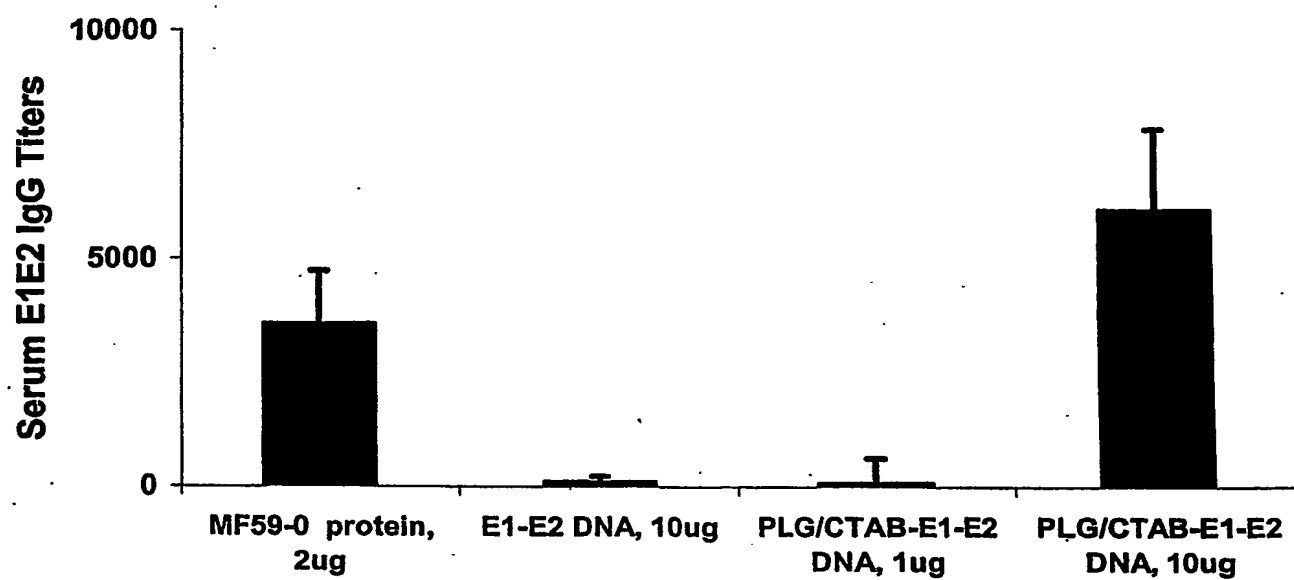


Fig. 4

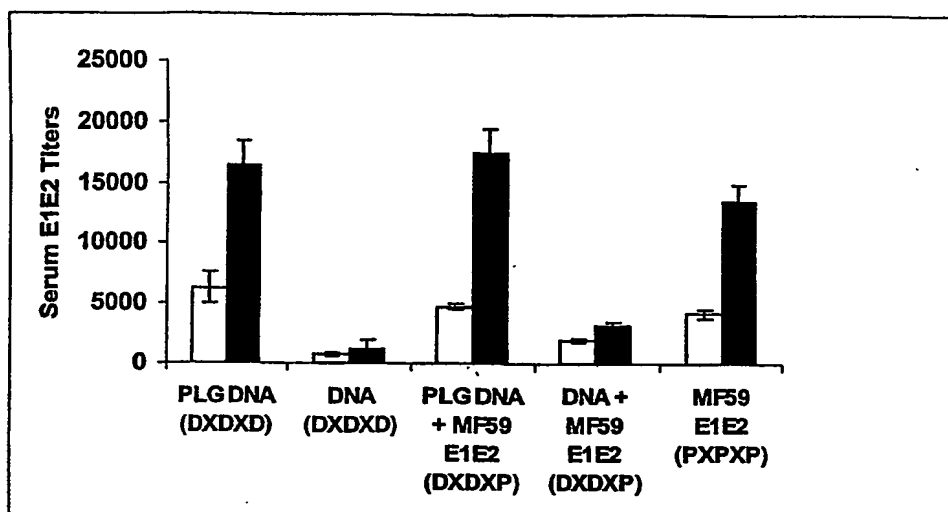


Fig. 5